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P.O. Box 1450

Alexandria, VA 22313-1450

Transmitted herewith for filing is the patent application of

Inventor(s): Frank Liu

For: ELECTROMAGNETIC WAVE TRANSMITTER, RECEIVER AND TRANSCEIVER SYSTEMS, METHODS AND ARTICLES OF MANUFACTURE

Also enclosed are:

- ☒ Application Data Sheet
☒ 9 Sheets of drawings
 Information Disclosure Statement with Form PTO-1449 and copies of publications
☒ Recordation Form Cover Sheet - Patents Only and an Assignment of the invention to M/A-COM, Inc.
☒ Declaration/Power of Attorney for Utility or Design Patent Application
☒ Postcard and Express Mail Certification

The filing fee has been calculated as shown below:

	NO. OF CLAIMS FILED		NO. OF CLAIMS FROM BASIC FEE	NO. OF EXTRA CLAIMS
TOTAL	34	-	20 =	14
INDEP.	4	-	3 =	1
<input type="checkbox"/> First presentation of multiple dependent claim				

SMALL ENTITY

RATE	BASIC FEE \$375.
x 9=	\$
x 42=	\$
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OTHER THAN SMALL ENTITY

RATE	BASIC FEE \$750.
x 18=	\$252
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TOTAL FEE \$ OR \$ 1086.00

- ☒ A check in the amount of \$ 1086.00 is enclosed to cover the official filing fee for a large entity.
- ☐ A check in the amount of \$ is enclosed to cover the official filing fee for a small entity.
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- ☐ Please charge my Deposit Account No. 50-2719 in the amount of \$. A duplicate copy of this sheet is enclosed.
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- ☒ During the pendency of this application, the Commissioner is hereby authorized to charge payment of any filing fees for presentation of extra claims under 37 CFR §1.16 and any patent application processing fees under 37 CFR §1.17 or credit any overpayment to Deposit Account No. 50-2719. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

Paul A. Taufer, Reg. No. 35,703
 Attorney for Applicant(s)

PAT:ers
 (215) 656-3300



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Patent and Trademark Office



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit :
Examiner :
Serial No. :
Filed : Herewith
Inventors : Frank Liu
Title : ELECTROMAGNETIC WAVE
: TRANSMITTER, RECEIVER AND
: TRANSCEIVER SYSTEMS, METHODS
: AND ARTICLES OF MANUFACTURE



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PATENT & TRADEMARK OFFICE

Docket No.: 17973 (1064-03)

Confirmation No.:

Dated: July 22, 2003

Mail Stop Patent Application

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATION

37 C.F.R. §1.10

Express Mail Label No.: EV323740578US

Date of Deposit: July 22, 2003

Description of Contents: Postcard, \$1086.00 Check, \$40.00 Check, Application Transmittal Letter, in duplicate, Application Data Sheet (1 page), Specification (29 pages), including claims (10 pages) and abstract (1 page), drawings (9 sheets), executed Combined Declaration, Power of Attorney and Petition, Recordation Form Cover Sheet - Patents Only and executed Assignment.

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and is addressed to **Mail Stop Patent Application**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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